

Datasets used in this study

JL Jie Lyu JL Jingyi Jessica Li WL Wei Li

Updated date: May 25, 2022

 An abbreviated version of this protocol was published in Science Advances in Nov 2020

DORGE: Discovery of Oncogenes and tumor suppressor genes using Genetic and Epigenetic features

DOI: 10.1126/sciadv.aba6784

Detailed protocol

All codes used in the paper are available at <https://github.com/biocq/DORGE>.

Complete codes (Rmd notebook file) and data to test the DORGE machine-learning model used in the DORGE paper can be found in DORGE_tool_reproduce.zip. For your convenience, illustrative codes of the DORGE machine-learning model used in the DORGE paper can be found at <https://biocq.github.io/DORGE/DORGE.html>. An online video that explains the code is available at <https://www.youtube.com/watch?v=Pk8ZqoHK8zk>.

Codes to reproduce the results in DORGE paper can be found at https://github.com/biocq/DORGE_codes.

Codes to visualize the prediction by Shiny app can be found at the DORGE_shiny folder in the website indicated above.

The auxiliary datasets that are necessary to process raw data were hosted at Figshare https://figshare.com/projects/DORGE_Discovery_of_Oncogenes_and_Tumor_Suppressor_Genes_Using_Genetic_and_Epigenetic_Features/78249, please note they are extreme large.

Further details are available at https://github.com/biocq/DORGE_codes.

How to cite: (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Lyu, J. , Li, J. and Li, W. (2022). Datasets used in this study. Bio-protocol Preprint. bio-protocol.org/prep1683.
2. Lyu, J., Li, J. J., Su, J., Peng, F., Chen, Y. E., Ge, X. and Li, W. (2020). DORGE: Discovery of Oncogenes and tumor suppressor genes using Genetic and Epigenetic features. Science Advances 6(46). DOI: [10.1126/sciadv.aba6784](https://doi.org/10.1126/sciadv.aba6784)

Copyright: Content may be subjected to copyright.